

I Claim:

1. An optical module for holding an optical fiber and optical component in alignment, said module comprising:
 - a. a housing having an inside and an outside;
 - b. a platform inside the housing;
 - c. a first assembly surrounding said optical fiber;
 - d. a second assembly surrounding said optical fiber;
 - e. said platform supporting said optical fiber, said optical component, and said first assembly;
 - f. said first assembly being between said second assembly and said optical component.
2. The optical module of claim 1 wherein said first assembly has an aperture, said second assembly has an aperture, said apertures having a center, said centers being substantially axially aligned; and further comprising a third assembly surrounding said optical fiber, said third assembly being inserted into said apertures.
3. The optical module of claim 1 wherein said first assembly is affixed to said platform; and said second assembly is affixed to said first assembly and to said third assembly.
4. The optical module of claim 1 wherein the height of said first assembly is greater than the height of said second assembly.
5. The optical module of claim 1 wherein the width of said first assembly is greater than the width of said second assembly.

6. The optical module of claim 1 wherein the width of said first assembly is greater than the width of said platform.

7. The optical module of claim 5 wherein said second assembly is affixed to said third assembly with a first set of welds and said second assembly is affixed to said third assembly with a second set of welds; wherein a line from said optical component past a first edge of said second assembly and a line from said first set of welds past a second edge of said second assembly forms an angle.

8. The optical module of claim 7 wherein said angle is at least 90 degrees.

9. The optical module of claim 7 wherein said angle is in the range of 90 degrees to 180 degrees.

10. An optical module for holding an optical fiber and optical component in alignment, said module comprising:

- a. a housing having an inside and an outside;
- b. a platform inside the housing;
- c. a screen having a first aperture and being supported by said platform;
- d. a flange having a second aperture;
- e. a hollow sleeve encasing said optical fiber;
- f. said first and second apertures each having a center, said centers being substantially axially aligned;
- g. said sleeve, with said encased optical fiber, being located inside said first and second apertures; and
- h. said flange being affixed to said sleeve and to said screen.

11. The optical module of claim 10 wherein the height of said screen is greater

than the height of said flange;

12. The optical module of claim 10 wherein the width of said screen is greater than the width of said flange.

13. The optical module of claim 10 wherein the width of said screen is greater than the width of said platform.

14. The optical module of claim 10 wherein said flange is affixed to said screen with a first set of welds and is affixed to said sleeve with a second set of welds.

15. The optical module of claim 14 wherein a line from said optical component past a first edge of said screen and a line from said first set of welds past a second edge of said screen forms an angle.

16. The optical module of claim 15 wherein said angle is at least 90 degrees.

17. The optical module of claim 15 wherein said angle is in the range of 90 degrees to 180 degrees.

18. An optical module for holding an optical fiber and optical component in alignment, said module comprising:

- a. a housing having an inside and an outside;
- b. a first assembly surrounding said optical fiber;
- c. a second assembly surrounding said optical fiber;
- d. said housing supporting said optical fiber, said optical component, and said first assembly;
- e. said first assembly being between said second assembly and said optical component.

19. The optical module of claim 18 wherein the height of said first assembly is

greater than the height of said second assembly.

20. The optical module of claim 18 wherein the width of said first assembly is greater than the width of said second assembly.

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